

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P348596

Luminaire Tested: **ARCH-N-PA1-10-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-740-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2246 lumens
Efficiency: N/A
Efficacy: 160.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

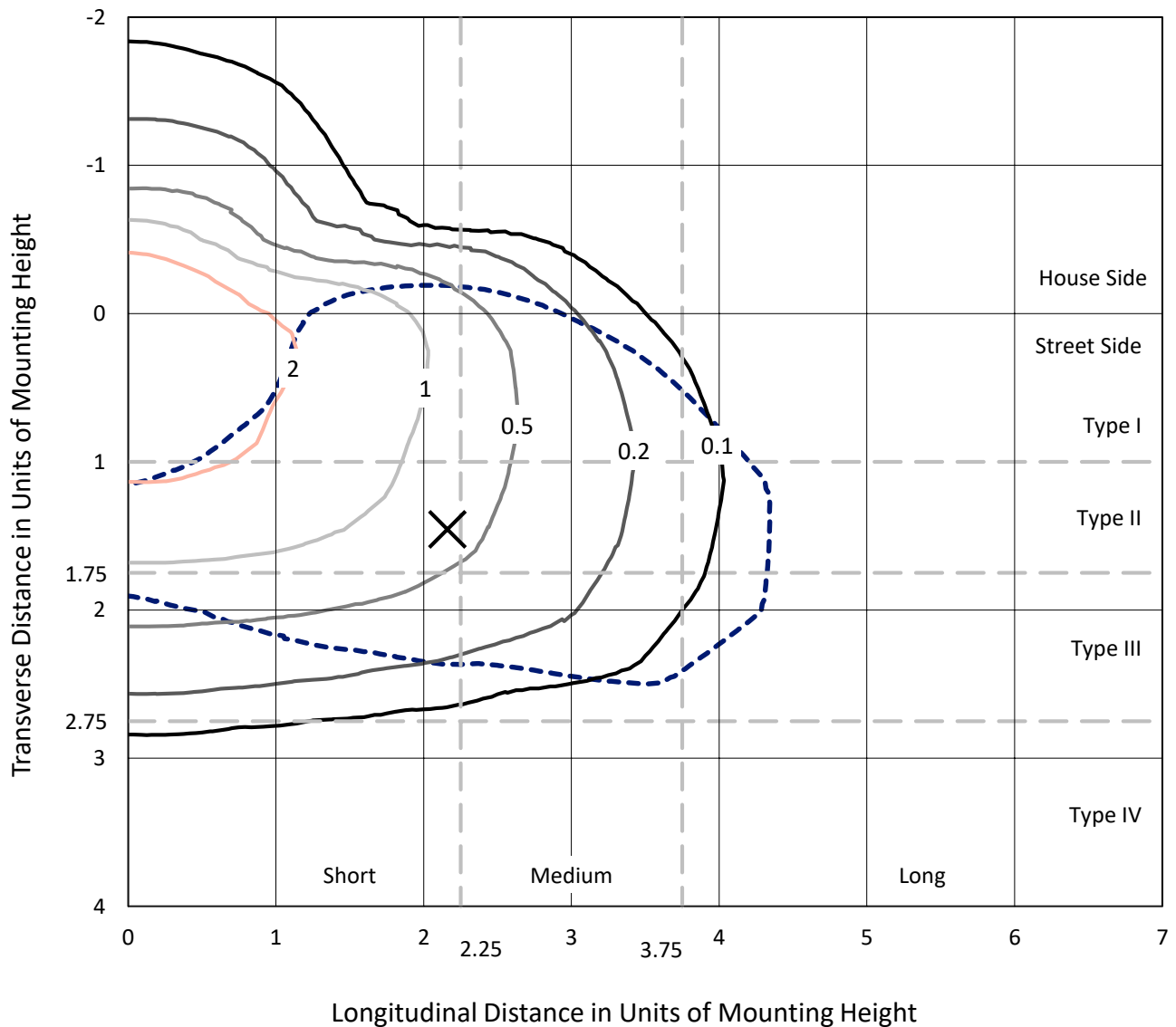
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348596
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

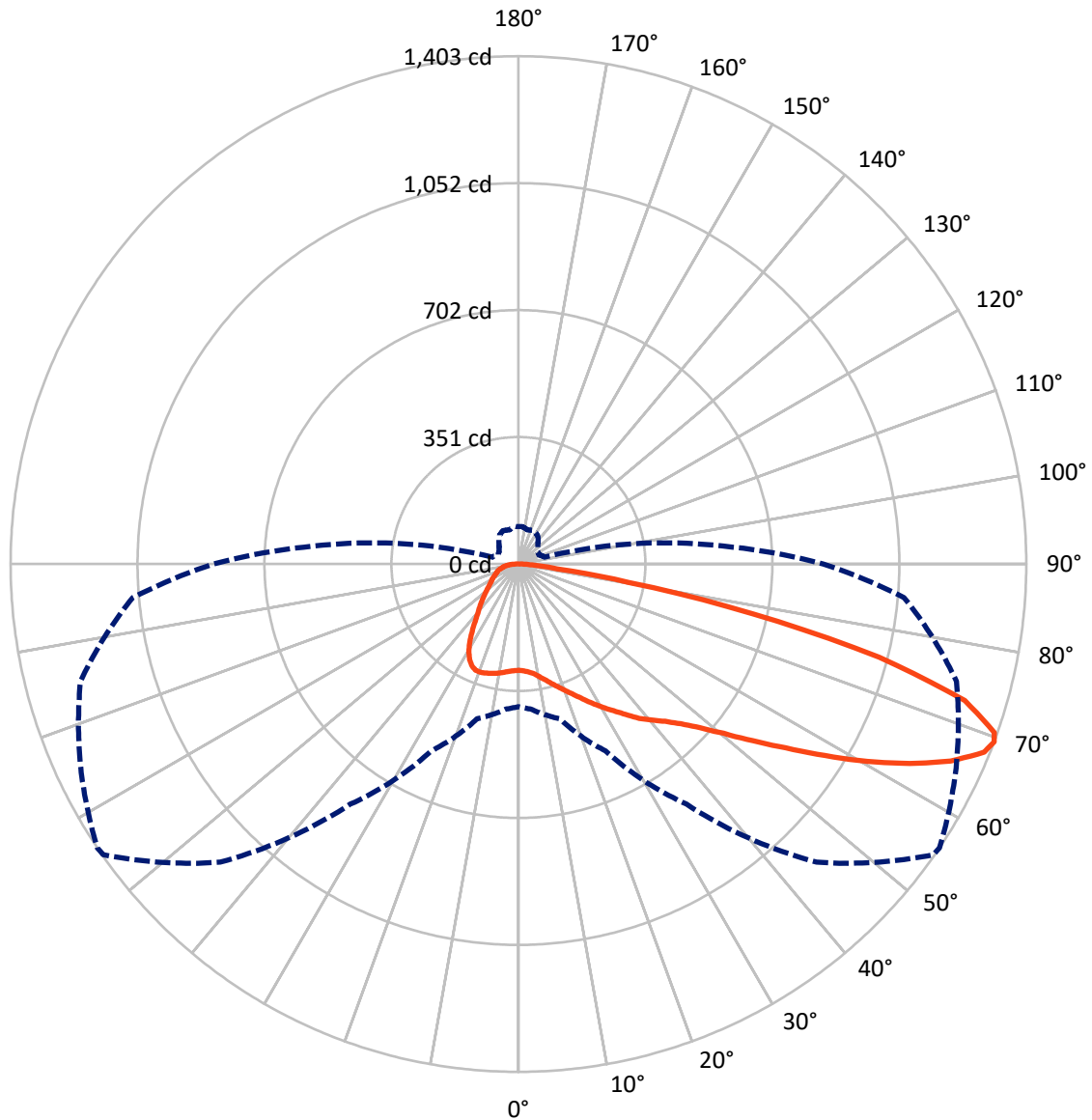


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348596

CATALOG NUMBER: ARCH-N-PA1-10-740-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.2	0.0	500.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	1745.8	0.0	1745.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	2246.0	0.0	2246.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	1.3
10°-20°	92.7	4.1
20°-30°	161.9	7.2
30°-40°	232.5	10.4
40°-50°	321.8	14.3
50°-60°	471.5	21.0
60°-70°	574.9	25.6
70°-80°	317.8	14.2
80°-90°	44.0	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2246.0	100.0
0°-180°	2246.0	100.0



REPORT NUMBER: P348596

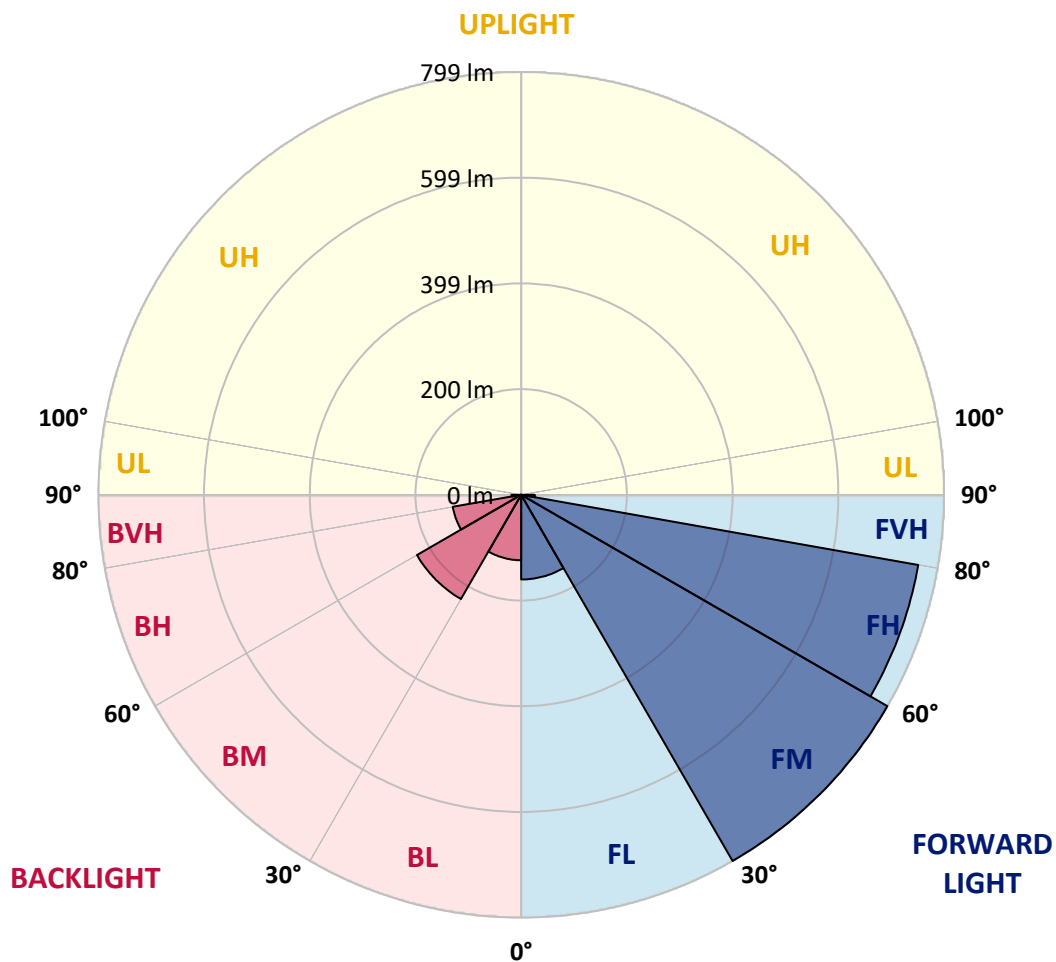
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.8	7.1			
FM	(30°-60°)	798.5	35.6			
FH	(60°-80°)	761.5	33.9			G1/1800
FVH	(80°-90°)	25.9	1.2			G1/100
BL	(0°-30°)	123.6	5.5	B1/500		
BM	(30°-60°)	227.3	10.1	B1/1000		
BH	(60°-80°)	131.2	5.8	B1/500		G1/500
BVH	(80°-90°)	18.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P348596

CATALOG NUMBER: ARCH-N-PA1-10-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6
2.5°	295.5	295.8	295.6	296.2	295.5	296.0	295.6	295.6	295.3	294.6	293.9
5°	300.1	300.7	300.4	301.0	300.1	300.3	299.6	299.6	298.9	297.4	295.9
7.5°	307.4	308.1	307.8	308.4	307.2	307.2	306.3	306.2	304.8	302.5	300.7
10°	316.1	317.0	316.7	317.6	316.7	317.0	316.1	316.1	314.2	310.8	308.6
12.5°	328.7	329.8	329.0	328.9	328.5	329.1	328.4	328.2	326.5	321.9	318.8
15°	345.5	346.8	345.0	344.9	342.7	342.5	342.5	342.2	341.1	335.6	330.5
17.5°	365.0	365.4	363.8	361.3	358.5	356.8	356.5	357.2	357.2	350.7	342.5
20°	384.0	384.7	383.5	380.7	377.1	374.5	372.6	373.9	373.8	366.1	354.5
22.5°	404.7	406.4	404.5	400.9	396.8	393.8	390.6	391.7	391.7	382.2	366.3
25°	431.6	430.1	429.0	423.9	418.0	415.0	411.9	413.0	412.7	399.6	378.4
27.5°	455.3	455.6	454.1	448.8	441.9	435.2	435.1	435.8	434.6	417.7	389.9
30°	483.0	483.1	481.0	476.2	468.6	460.1	458.0	459.2	456.7	434.9	402.0
32.5°	510.4	511.2	508.8	503.0	497.0	486.5	482.5	483.3	477.1	452.5	414.4
35°	534.5	535.6	534.8	530.9	524.4	515.4	510.6	510.1	502.5	474.0	430.9
37.5°	559.0	560.0	559.2	555.9	553.3	543.8	541.2	541.2	527.9	496.0	451.9
40°	584.2	585.8	584.8	580.3	578.1	573.7	567.6	566.1	551.7	522.3	486.1
42.5°	607.7	609.7	613.7	611.1	606.5	607.1	594.8	594.1	583.5	561.3	529.0
45°	641.0	643.9	650.7	648.7	647.8	644.4	629.7	629.0	625.0	613.8	582.3
47.5°	677.2	681.3	693.6	694.0	703.9	697.5	677.6	675.2	676.2	676.6	647.4
50°	710.7	715.1	735.3	744.8	768.3	769.7	737.9	735.7	739.4	750.1	723.2
52.5°	737.4	742.9	768.2	797.6	837.9	849.3	812.1	810.5	813.2	831.6	808.9
55°	756.9	763.0	790.4	844.0	908.4	928.6	897.5	896.0	897.7	921.1	902.2
57.5°	761.5	763.0	802.8	875.2	967.9	1016.4	1002.1	999.0	990.6	1011.0	1005.1
60°	740.1	746.0	792.6	886.2	1013.9	1103.0	1111.3	1107.4	1084.0	1100.7	1095.9
62.5°	696.6	707.1	754.5	869.5	1031.9	1173.7	1218.5	1213.8	1173.4	1184.3	1161.2
65°	625.6	630.0	679.8	811.9	1009.0	1218.9	1314.0	1311.7	1260.9	1243.9	1173.3
67.5°	498.5	506.9	549.2	691.4	915.3	1213.6	1387.9	1387.7	1318.0	1266.1	1130.5
69°	393.8	402.6	442.8	569.5	809.9	1164.8	1400.3	1403.0	1334.1	1252.6	1069.4
70°	314.0	324.1	351.7	479.7	716.4	1100.4	1390.0	1394.9	1331.0	1230.4	1013.0
72.5°	133.6	141.8	161.5	247.3	436.6	821.7	1270.9	1289.3	1259.2	1126.1	837.2
75°	58.3	60.9	69.8	100.8	193.8	447.2	995.6	1029.7	1076.7	951.8	623.6
77.5°	42.7	43.8	48.7	59.2	87.0	168.9	640.3	660.1	776.5	692.6	382.5
80°	33.0	33.8	37.6	43.5	56.8	68.3	292.0	309.0	436.6	355.8	159.3
82.5°	26.3	26.8	29.5	32.0	39.2	41.4	96.9	107.5	161.2	98.3	42.2
85°	24.4	25.1	26.0	23.4	25.1	24.3	41.9	43.9	48.7	38.6	17.6
87.5°	11.1	13.1	25.8	18.2	13.4	10.7	17.2	18.0	20.2	20.3	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348596

CATALOG NUMBER: ARCH-N-PA1-10-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6
2.5°	294.3	294.1	294.5	293.6	294.7	294.6	294.2	294.4	295.2	295.1	295.2
5°	296.1	296.0	296.4	295.7	297.1	297.6	297.7	298.4	299.2	299.4	299.4
7.5°	300.6	300.6	300.8	299.9	300.8	300.7	300.4	301.1	301.9	302.0	301.9
10°	308.3	308.4	308.0	305.6	304.8	302.8	300.8	300.9	302.0	302.8	303.1
12.5°	318.1	317.8	316.1	311.7	308.4	304.2	302.1	302.1	303.1	303.8	304.1
15°	329.2	328.4	324.0	316.8	311.0	306.9	303.6	302.8	302.2	301.4	301.5
17.5°	339.7	337.8	330.5	320.5	314.4	308.9	302.6	297.6	294.1	292.1	291.5
20°	350.4	346.6	336.0	324.0	316.3	306.2	294.1	283.9	277.5	274.6	274.1
22.5°	360.2	354.1	341.2	327.6	314.8	297.0	278.1	263.2	254.4	250.5	250.8
25°	369.7	361.2	346.6	330.2	307.4	280.9	255.8	237.5	227.3	222.9	222.8
27.5°	378.0	368.4	352.5	328.1	293.6	258.0	229.4	211.6	203.1	199.3	198.7
30°	387.6	377.4	360.3	320.1	273.3	231.6	203.6	191.1	185.1	181.3	180.6
32.5°	399.3	389.7	366.7	305.6	247.4	204.0	183.5	174.8	169.3	165.0	164.3
35°	416.3	406.0	368.4	284.9	218.9	182.1	168.8	159.8	152.3	146.9	146.3
37.5°	437.7	426.3	364.7	258.0	191.3	168.0	156.4	145.4	135.7	128.0	126.7
40°	468.5	451.3	354.4	227.1	170.9	157.1	144.5	131.8	119.9	110.8	109.0
42.5°	505.5	480.6	338.6	196.3	156.0	146.0	132.5	116.9	105.5	99.0	98.1
45°	552.5	511.1	316.7	169.4	141.3	134.9	119.7	105.3	98.2	93.5	92.7
47.5°	606.2	545.3	293.7	147.5	128.8	124.6	109.4	100.1	94.5	90.8	90.1
50°	672.2	583.9	269.3	129.5	116.3	112.1	104.5	97.3	92.8	89.9	89.2
52.5°	746.6	627.5	251.8	115.4	105.9	102.9	102.0	95.7	92.1	89.9	89.2
55°	826.8	671.8	232.8	103.4	96.9	97.8	100.3	95.9	93.4	90.8	89.8
57.5°	907.0	717.6	211.7	93.4	89.8	94.0	99.1	96.2	94.1	91.5	90.6
60°	970.5	746.6	179.0	85.0	84.2	89.8	96.3	93.9	91.1	91.2	91.1
62.5°	1000.1	745.1	142.8	77.5	78.5	84.2	91.8	90.2	88.0	91.0	91.2
65°	983.5	708.0	111.2	70.6	72.5	78.3	87.2	88.4	89.2	95.0	95.8
67.5°	913.7	635.7	86.1	64.7	67.0	74.3	87.7	96.3	97.3	103.4	103.4
69°	841.5	567.9	74.8	61.6	64.3	75.3	93.7	101.4	97.6	104.1	103.1
70°	781.0	514.3	68.8	59.5	63.1	77.1	97.7	101.3	96.4	102.0	100.4
72.5°	601.5	370.0	58.3	55.6	58.9	73.7	98.9	99.0	93.7	94.8	92.2
75°	412.6	233.8	50.9	50.4	52.5	66.5	95.2	94.6	86.7	85.1	82.9
77.5°	227.5	118.8	43.3	45.3	46.8	58.9	86.5	85.7	79.2	75.9	75.1
80°	87.7	52.0	36.5	40.3	41.2	51.0	75.8	75.1	69.6	65.5	64.3
82.5°	33.1	27.2	30.2	34.9	34.6	42.1	64.2	63.8	58.5	52.4	50.5
85°	15.3	16.3	23.9	28.8	26.5	31.2	51.4	52.1	45.6	38.3	38.3
87.5°	6.5	9.1	16.9	21.7	17.9	21.0	37.7	36.0	33.0	22.9	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)